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DATE MAILED: 08/08/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,595	12/03/2003	Jae-Jin Lyu	6192.0329.US	4849
759	08/08/2005		EXAMINER	
McGuireWoods			CHEN, WEN YING PATTY	
Suite 1800 1750 Tysons Boulevard			ART UNIT	PAPER NUMBER
McLean, VA 22102-4215			2871	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	10/725,595	LYU, JAE-JIN					
Office Action Summary	Examiner	Art Unit .					
	Wen-Ying P. Chen	2871					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 7/20/05.							
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.						
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ☐ Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) 8-32 is/are withdrawn 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	from consideration.						
Application Papers							
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on <u>03 December 2003</u> is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examine 11.	re: a) \square accepted or b) \square objected armonic drawing(s) be held in abeyance. See on is required if the drawing(s) is object.	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

Application/Control Number: 10/725,595

Art Unit: 2871

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I, Species 1 in the reply filed on 7/20/05 is acknowledged. Therefore, claims 8-32 are withdrawn from consideration and claims 1-7 currently remain in the present application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Nishiyama et al. (US 2002/0140888).

With respect to claim 1: Nishiyama et al. disclose in Figure 1 a liquid crystal display apparatus comprising: a lower substrate including a first transparent substrate (element 134); an upper substrate facing the first transparent substrate, the upper substrate including a second transparent substrate (element 111); a liquid crystal layer (element 120) interposed between the lower substrate and the upper substrate; and a retardation layer (element 116) interposed between the first and second transparent substrates, the retardation layer compensating phase difference of light that passes through the liquid crystal layer.

Application/Control Number: 10/725,595

Art Unit: 2871

As to claims 5-7: Nishiyama et al. disclose that the upper substrate further comprises a color filter layer (element 113), a protection layer (element 114) disposed on the color filter layer, a common electrode layer (element 115) disposed on the protection layer, and the retardation layer (element 116) is disposed on the common electrode layer.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishiyama et al. (US 2002/0140888) in view of Jones et al. (US 6124907).

Nishiyama et al. disclose all of the limitations set forth in claim 1, but fail to specifically disclose the composition of the retardation layer. However, Jones et al. teach the use of internal retarder/polarizer corresponding to Figures 1 and 9, wherein the retardation layer comprises a cholesteric liquid crystal polymer including reactive mesogen mixture (Column 12, lines 39-52).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to construct a liquid crystal display apparatus as taught by Nishiyama et al. wherein the retardation layer has the properties as taught by Jones et al., since Jones et al. teach that having such retarder/polarizer helps in improving contrast ratios in the display due to the minimization of the de-polarizing of color filters (Abstract).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wen-Ying P. Chen whose telephone number is (571)272-8444. The examiner can normally be reached on 8:00-5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on (571)272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Genter (EBC) at 866-217-9197 (toll-free).

Wen-Ying P Chen

Examiner

SUPERVISORY PATENT EXAMINER

WPC 8/03/05